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	Z	UTILITY	Attorney Docket No. 716875.6						
	'n	PATENT APPLICATION	First Named Inventor KORAKIANITIS et al.						
	•	TRANSMITTAL	Title OPTIMIZED PULSATILE-FLOW VENTRICULAR-ASSIST						
	ΡŢ	I KANSWIII I AL	DEVICE AND TOTAL ARTIFICIAL HEART						
77 100	<b>5</b> O	new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No. EV320682425US						
(Om	y 101	APPLICATION ELEMENTS	ADDRESS TO: Mail Stop Patent Application						
See M	PEP ch	napter 600 concerning utility patent application contents.	Commissioner for Patents						
			P.O. Box 1450 Alexandria, VA 22313-1450						
1.	$\boxtimes$	Fee Transmittal Form (e.g., PTO/SB/17)	7. CD-ROM or CD-R in duplicate, large table or Computer Program						
	_	(Submit an original, and a duplicate for fee processing)	(Appendix)						
2.	$\bowtie$	Applicant claims small entity status. See 37 CFR 1.27	8. Nucleotide and/or Amino Acid Sequence Submission						
3.	$\boxtimes$	Specification [Total Pages 131	(if applicable, all necessary)  a. Computer Readable Form (CRF)						
		(preferred arrangement set forth below, MPEP 1503.01)	b. Specification Sequence Listing on:						
	-	Descriptive title of the invention	i. CD-ROM or CD-R (2 copies); or						
	-	Cross Reference to Related Applications Statement Regarding Fed sponsored R&D	ii. paper						
	-	Reference to sequence listing, a table, or a computer	c. Statements verifying identity of above copies						
	-	program listing appendix	ACCOMPANYING APPLICATION PARTS						
	-	Background of the Invention	9.   Assignment Papers (copy from prior application)  10.   37 CFR 3.73(b) Statement   Power of Attorney (copy)						
	-	Brief Summary of the Invention	(when there is an assignee)						
	-	Brief Description of the Drawings (if filed) Detailed Description							
	-	Claim(s)	11. L English Translation Document (if applicable)						
		Abstract of the Disclosure	12. Information Disclosure Statement . Copies of IDS						
4.	M	Drawings (37 U.S.C. 113) [Total Sheets 22]	(IDS)/PTO-1449 Citations						
5.	a.	n or Declaration [Total Pages 2]  Newly executed (original or copy)	13. Preliminary Amendment						
	ь. 🗵		14. Return Receipt Postcard (MPEP 503)						
	_	(for continuation/divisional with Box 18 completed)	(Should be specifically itemized)						
i. DELETION OF INVENTOR(S)			15. Certified Copy of Priority Document(s)						
		Signed statement attached deleting inventor(s) named in the prior application, see	(if foreign priority is claimed)						
6.		37 CFR 1.63(d)(2) and 1.33(b) Application Data Sheet. See 37 CFR 1.76	16. Nonpublication Request under 35 U.S.C. 122						
0.	<u> </u>	Approach Data Shoet. See 57 Of K 1.70	(b)(2)(B)(i). Applicant must attach form PTO/SB/35						
			or its equivalent.						
			17.  Other:						
18. II	f a CC	ONTINUING APPLICATION, check appropriate box, and supply the re	equisite information below and in a preliminary amendment, or in an Application						
Data	Sheet	t under 37 CFR 1.76:	11						
	Conti	inuation 🛛 Divisional 🔲 Continuation	in-part (CIP) of prior application No.: <u>09/805,523</u>						
	Prior	application information: Examiner <u>Jastrzab</u> , <u>Jeffre</u>	cy R. Group Art Unit:3762						
For (	CON	TINUATION or DIVISIONAL APPS only: The entire disclosure of	the prior application, from which an oath or declaration is supplied under Box						
			divisional application and is hereby incorporated by reference. The						
incor	рога	tion can only be relied upon when a portion has been inadvertently	Omitted from the submitted application parts.						
			11 11 11 14 14 14 14 14 14 14 14 14 14 1						
$\boxtimes$	Cus	tomer Number or Bar Code Label 27.128	Correspondence address below						
Name	e	Rebecca J. Brandau	0.0						
. ,,,,,,,,,		720 Olive Street 27	28						
Addr	ess	Suite 2400 PATENT TRADE	MARK OFFICE						
City	-000	St. Louis State	Missouri Zip Code 63101						
Coun	try		314-345-6000 Fax 314-345-6060						
Nam	e (Pri	int/Type) Rebecca J. Brandau	Registration No. 33,654						
			(Attorney/Agent)						
Signa	ature	N / O O O	Date July <b>2</b> , 2003						

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F	EE TRANSMITTAL
3	for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision. Applicant claims small entity status. See 37 CFR 1.27 **TOTAL AMOUNT OF PAYMENT** 

(\$) 1,655.00

Complete if Known				
Application Number	Not Yet Known			
Filing Date	Herewith			
First Named Inventor	KORAKIANITIS et al.			
Examiner Name	Not Yet Known			
Art Unit	3762			
Attorney Docket No.	716875.6			

Number   Deposit   RLACKWELL SANDERS PEPER MARTIN LLP   1052   50   2052   25   2052   2052   25   2052   25   2052   25   2052   25   2052   25   2052   25   2052   25   2052   25   2052   25   2052   25   2052   2052   25   2052   25   2052   25   2052	METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)						
Deposit   Account   11-0160   1051   130   2051   65   Surcharge - late filing fee or oath   2051   2052   25   Surcharge - late provisional filing fee or oath   2051   2052   25   Surcharge - late provisional filing fee or oath   2051   2052   25   Surcharge - late provisional filing fee or oaver sheet   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1812   2,520   1818   4 920*   1804   920*   1804   920*   1804   920*   1804   920*   1804   920*   1804   920*   1804   920*   1804   920*   1805   1,840*   1,840*   1805   1	Check Credit card Money Other None	3. ADDITIONAL FEES						
Account Number   Deposit   RLACKWELL SANDERS PEPER MARTIN LLP   1051   130   1052   50   2052   25   Surcharge - late filing fee or oath   1052   50   2052   25   Surcharge - late filing fee or oath   1052   50   2052   25   Surcharge - late filing fee or oath   1052   50   2052   25   Surcharge - late filing fee or oath   1052   50   2052   25   Surcharge - late filing fee or oath   1052   50   2052   25   Surcharge - late filing fee or oath   1052   50   2052   25   Surcharge - late filing fee or oath   1052   50   2052   25   Surcharge - late filing fee or oath   1052   1053   130   1053	Deposit Account: Order	Large	Large Entity   Small Entity					
Deposit   Account   Acc	Deposit Account 11-0160					Fee Description		
RLACKWELL SANDERS PEPER MARTIN LLP   1052   50   2052   25   25   25   25   25	Denosit	1051	130	2051	65	Surcharge - late filing fee or oath		
Charge fees indicated below   Credit any overpayments   1812   2,520   1812   2	Account BLACKWELL SANDERS PEPER MARTIN LLP	1052	50	2052	25			
Start   Star	The Commissioner is authorized to: (check all that apply)	1053	130	1053	130	Non-English specification		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		1812	2,520	1812	2,520	For filing a request for ex parte reexamination		
Semillar		1804	920*	1804	920*			
1. BASIC FILING FEE   1252   410   2252   205   Extension for reply within second month   1253   930   2253   465   Extension for reply within third month   1253   930   2253   465   Extension for reply within third month   1253   930   2253   465   Extension for reply within third month   1253   930   2254   725   Extension for reply within forum month   1253   930   2254   725   Extension for reply within forum month   1254   1,450   2254   725   Extension for reply within forum month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   985   Extension for reply within fifth month   1255   1,970   1155   1150	to the above-identified deposit account.	1805	1,840*	1805	1,840*			
Large Entity   Small Entity   Fee   Fee   Fee   Fee   Description   Fee Paid   1253   930   1254   1,450   1254   1,450   1254   1,450   1254   1,450   1254   1,450   1254   1,450   1254   1,450   1254   1,450   1254   1,450   1254   1,450   1254   1,450   1255   1,970   1155   155   1,970   1155   985   Extension for reply within firth month   1002   330   2002   165   Design filling fee   1401   320   2401   160   Notice of Appeal   1003   520   2003   260   Plant filing fee   1401   320   2402   160   Filling a brief in support of an appeal   1004   750   2004   375   Reissue filling fee   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to revive - unavoidable   1451   1,300   2453   650   Petition to revive - unavoidable   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   2501   650   Utility issue fee   1401   14		1251	110	2251	55	Extension for reply within first month		
Fee   Fee   Gode   Fee   Gode   (\$)		1252	410	2252	205	Extension for reply within second month		
Code   (\$)   Code   (\$)   Code   (\$)								
1001   750   2001   375		1254	1,450	2254	725	Extension for reply within fourth month		
1003   520   2003   260   Plant filing fee   1402   320   2402   160   Filing a brief in support of an appeal   1004   750   2004   375   Reissue filing fee   1403   280   2403   140   Request for oral hearing   1405   160   2005   80   Provisional filing fee   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to revive - unavoidable   1451   1,510   1451   1,510   Petition to revive - unavoidable   1451   1,510   1452   150   2452   55   Petition to revive - unavoidable   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   2501   650   Utility issue fee   1501   1,300   2501   650   Utility issue fee   1501   1,300   2501   130   Petitions to the Commissioner   1400   1400   130   Petitions to the Commissioner   1400   1400   130   Petitions to the Commissioner   1400   1400   130   Petitions to the Commissioner   1806   180   1806   180   1806   180   Submission of Information Disclosure Stmt   1201   84   2202   9   Claims in excess of 20   8021   40   8021   40   Recording each patent assignment per property (times number of properties)   1201   84   2201   42   Independent claims in excess of 3   1809   750   2809   375   Filing a submission after final rejection (37   CFR 1.129(a))   1203   280   2203   140   Multiple dependent claims in excess of 20   1801   750   2810   375   Request for continued Examination (RCE)   1205   18   2205   9 ** Reissue claims in excess of 20   1802   900   Request for expedited examination of a design application   1801   1802   900   1802   900   Request for expedited examination of a design application   1801   1802   900   1802   900   Request for expedited examination of a design application   1801   1802   900   1802   900   1802   900   Request for expedited examination of a design application   1801   1802   900   1802   900   Request for expedited examination of a design application   1801   1802   1802   1802   18		1255	1,970	1155	985	Extension for reply within fifth month		
1403   280   2403   140   Request for oral hearing   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to revive - unavoidable   1451   1,510   1452   150   1452   150   1452   150   1452   150   1453   1,300   1452   150   1453   1,300   1455   1501   1,300   1501   1501   1,300   1501   1501   1,300   1501   1,300   1501   1501   1,300   1501   1501   1,300   1501   1501   1,300   1501   1501   1,300   1501   1501   1,300   1501   1501   1,300   1501   1501   1,300   1501   1501   1,300   1501   1,300   1501   1501   1,300   1501   1,300   1501   1,300   1501   1501   1,300   1501   1,300   1501   1,300   1501   1,300   1,3	1002 330 2002 165 Design filing fee	1401	320	2401	160	Notice of Appeal		
1005   160   2005   80   Provisional filing fee   1451   1,510   1451   1,510   Petition to institute a public use proceeding	1003 520 2003 260 Plant filing fee	1402	320	2402	160	Filing a brief in support of an appeal		
SUBTOTAL (1) (\$) 375.00	1004 750 2004 375 Reissue filing fee	1403	280	2403	140	Request for oral hearing		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE   1453   1,300   2453   650   Petition to revive - unintentional   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   2501   650   Utility issue fee (or reissue)   1501   1,300   1,300	1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
Total Claims   58   -20**   =   38     X   9     =   342	SUBTOTAL (1) (\$) 375.00	1452	110	2452	55	Petition to revive - unavoidable		
Total Claims   58   -20** =   38	2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453	1,300	2453	650	Petition to revive - unintentional		
Total Claims		1501	1,300	2501	650	Utility issue fee (or reissue)		
Independent 22 -3** = 19		1502	470	2502	235	Design Issue fee		
Claims  Multiple Dependent  Large Entity   Small Entity   140   140   1460   130   1460   1460   130   1460   1460   130   1460   1460   130   1460   1460   130   1460   1460   130   1460   1460   1460   130   1460   14	Independent 22 -3** = 19 X 42 = 798	1503	630	2503	315	<u></u>		
Large EntitySmall Entity180750180750Processing fee under 37 CFR 1.17(q)Fee Code (\$)Fee Code (\$)Fee Code (\$)Fee Fee Code (\$)Fee Fee Fee Fee Fee Code (\$)Fee Pee <br< td=""><td>Claims</td><td></td><td></td><td></td><td></td><td></td></br<>	Claims							
Fee Fee Fee Fee Fee Fee Description 1806 180 1806 180 Submission of Information Disclosure Stmt  1202 18 2202 9 Claims in excess of 20 8021 40 8021 40 Recording each patent assignment per property (times number of properties)  1201 84 2201 42 Independent claims in excess of 3 1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a))  1203 280 2203 140 Multiple dependent claim, if not paid 1810 750 2810 375 For each additional invention to be examined (37 CFR 1.129(b))  1204 84 2204 42 ** Reissue independent claims over original patent 1801 750 2801 375 Request for Continued Examination (RCE)  1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent 1802 900 1802 900 Request for expedited examination of a design application								
Code (\$) Code (\$)  1202 18 2202 9 Claims in excess of 20 8021 40 8021 40 Recording each patent assignment per property (times number of properties)  1201 84 2201 42 Independent claims in excess of 3 1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a))  1203 280 2203 140 Multiple dependent claim, if not paid 1810 750 2810 375 For each additional invention to be examined (37 CFR 1.129(b))  1204 84 2204 42 ** Reissue independent claims over original patent 1801 750 2801 375 Request for Continued Examination (RCE)  1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent 1802 900 1802 900 Request for expedited examination of a design application					•			
1202 18 2202 9 Claims in excess of 20 8021 40 8021 40 Recording each patent assignment per property (times number of properties)  1201 84 2201 42 Independent claims in excess of 3 1809 750 2809 375 Filing a submission after final rejection (37 CFR 1.129(a))  1203 280 2203 140 Multiple dependent claim, if not paid 1810 750 2810 375 For each additional invention to be examined (37 CFR 1.129(b))  1204 84 2204 42 ** Reissue independent claims over original patent 1801 750 2801 375 Request for Continued Examination (RCE)  1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent 1802 900 1802 900 Request for expedited examination of a design application		1806	180	1806	180	Submission of Information Disclosure Stmt		
1203 280 2203 140 Multiple dependent claim, if not paid 1810 750 2810 375 For each additional invention to be examined (37 CFR 1.129(b))  1204 84 2204 42 ** Reissue independent claims over original patent 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent 1802 900 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application	117	8021	40	8021	40			
examined (37 CFR 1.129(b))  1204 84 204 42 ** Reissue independent claims over original patent  1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent  1206 18 207 9 ** Reissue claims in excess of 20 and over original patent  1207 18 2080 375 Request for Continued Examination (RCE)  1208 1802 900 Request for expedited examination of a design application	1201 84 2201 42 Independent claims in excess of 3	1809	750	2809	375	Filing a submission after final rejection (37		
over original patent  1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent 1802 900 Request for expedited examination of a design application			•			examined (37 CFR 1.129(b))		
1205 18 2205 9 ** Reissue claims in excess of 20 1802 900 1802 900 Request for expedited examination of a design application		1801	750	2801	375	Request for Continued Examination (RCE)		
	1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900			
	<b>SUBTOTAL (2)</b> (\$)1,280.00	Other f						
**or number previously paid, if greater; For Reissues, see above	**or number previously paid, if greater; For Reissues, see above	*Reduc	ced by Bas	ic Filing F	ee Paid	SUBTOTAL (3) (\$)		

SUBMITTED BY		(Complete (if applicable))					
Name Rebecca J. Brandau (Print/Type)	2	Registration No. (Attorney/Agent)	33,654	Telephone	314-345-6000		
Signature Riveria (	Ina down			Date	hela 2 2003		

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STATEMENT UNDER 37 CFR 3.73(b)
Applicant/Patent Owner: KORAKIANITIS et al.
Application No./Patent No.: Unknown Filed/Issue Date: Herewith
Entitled: OPTIMIZED PULSATILE-FLOW VENTRICULAR-ASSIST DEVICE AND TOTAL ARTIFICIAL HEART
LTK Enterprises, L.L.C. , a corporation  (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:
1.  the assignee of the entire right, title, and interest; or
2. an assignee of less than the entire right, title and interest.  The extent (by, percentage) of its ownership interest is%
in the patent application/patent identified above by virtue of either:
A. [x] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 011603, Frame 0978, or for which a copy thereof is attached.
OR
B. [ ] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:
1.From:
2.From: To: To: The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
3.From: To:
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
[ ] Additional documents in the chain of title are listed on a supplemental sheet.
[ ] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.
Puly 32005 Rebecca J. Brandau Typed or printed name Autocal Standau
Signature
Attorney of Record Title

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